

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A digital signal recorder for recording a digital signal on a recording medium, comprising:

first key information generation unit to generate at least one item of first key information which is apparatus specific key information;

second key information generation unit to generate at least one item of second key information;

key generation unit which receives both of said first and second key information generated by said first key information generation unit and said second key information generation unit, and performs a prescribed arithmetic operation thereon to generate a key;

an encrypting circuit which receives said key and said digital signal and encrypts said digital signal with said key, and outputs the resulting encrypted digital signal in a case where said digital signal needs copy protection; and

a recording circuit which records at least one of said at least one item of second key information generated by said second key information generation unit, together with said encrypted digital signal in a case where said digital signal needs copy protection, and records said digital signal without encryption in a case where said digital signal needs no copy protection.

2. (Currently Amended) The digital signal recorder according to claim 1, wherein said second key information generation unit generates said second key information by using a random number generator, and said digital signal has a packet format of a prescribed length.

3. (Currently Amended) The digital signal recorder according to claim 1, wherein:

said second key information generation unit generates said second key information by using a random number generator;

said second key information generation unit has a function for updating said at least one item of said second key information at a prescribed time interval; and

said recording circuit has a function for recording information capable of identifying timing when said second key information generation unit updates said second key information.

4. (Currently Amended) The digital signal recorder according to claim 3, wherein:

said digital signal has a packet format of a prescribed length; and

said recording circuit has a function for adding identifying information capable of identifying timing where said second key information generation unit updates said second key information, and where such said identifying information is added to packets of said digital signal and recorded on said recording medium.

5. (Currently Amended) The digital signal recorder according to claim 1,
wherein:

said second key information generation unit generates said second key
information by using a random number generator;

said encryption circuit has a function capable of selecting between a first
function for encrypting and outputting said digital signal, and a second function for
outputting said digital signal as is without encryption; and

said recording circuit has a function for recording, in a prescribed area on said
recording medium, encryption flag information indicating whether or not said digital
signal is encrypted, and, when not encrypted, not recording said second key
information.

6. (Previously Presented) The digital signal recorder according to claim 5,
wherein:

said digital signal has a packet format of a prescribed length; and

said recording circuit has a function for adding encryption flag information
indicating whether or not said digital signal is encrypted, to packets of said digital
signal, and a function for recording on said recording medium.

7. (Previously Presented) A digital signal recorder in which a digital signal of
a packet format of a prescribed length is input and divided into other prescribed
lengths; a synchronization signal, recording information signal, auxiliary information
signal, and first error correction code are added thereto to define a block format; one
track is formed by a prescribed number of blocks thus made; a second error

correction code is added in units of n tracks (where n is an integer 1 or greater); said second error correction code is also divided and said first error correction code is added thereto to constitute a block format; and said tracks are recorded on said recording medium; comprising:

- first key information generation unit to generate at least one item of first key information which is apparatus specific key information;

- second key information generation unit to generate at least one item of second key information;

- key generation unit to receive both of said first and second key information generated by said first key information generation unit and said second key information generation unit, and to perform a prescribed arithmetic operation to generate a key;

- an encryption circuit which receives said key and said digital signal, encrypts said digital signal with said key, and outputs the resulting encrypted digital signal in a case where said digital signal needs copy protection; and

- a recording circuit which records said at least one item of second key information generated by said second key information generation unit, together with said encrypted digital signal in a case where said digital signal needs copy protection, and records said digital signal without encryption in a case where said digital signal needs no copy protection.

8. (Previously Presented) The digital signal recorder according to claim 7, wherein said recording circuit has a function for holding said second key information

in an auxiliary information signal area in said blocks and recording same on said recording medium.

9. (Previously Presented) The digital signal recorder according to claim 7, wherein said second key information generation unit has a function for updating said at least one item of said second key information at a prescribed time interval; and said recording circuit has a function for recording information capable of identifying timing where said second key information generation unit updates said key information, in a prescribed area on said recording medium.

10. (Previously Presented) The digital signal recorder according to claim 9, wherein said recording circuit has a function for holding said information capable of identifying said timing in a recording information signal area in said blocks and recording same on said recording medium.

11. (Previously Presented) The digital signal recorder according to claim 9, wherein said recording circuit has a function for holding said information capable of identifying said timing in an auxiliary information signal area in said blocks and recording same on said recording medium.

12. (Previously Presented) The digital signal recorder according to claim 9, wherein said recording circuit has a function for adding said information capable of identifying said timing to packets in said digital signal and recording same on said recording medium.

13. (Previously Presented) The digital signal recorder according to claim 9, wherein said second key information generation unit has a function for updating said key information at points of separation between units of n tracks wherewith said second error correction code was added.

14. (Previously Presented) The digital signal recorder according to claim 7, wherein:

said encryption circuit has a function for encrypting and outputting said digital signal; and a function for outputting same as is, without encryption; and

said recording circuit has a function for recording encryption flag information indicating whether or not said digital signal is encrypted, in a prescribed area on said recording medium, and, when not encrypted, not recording said second key information.

15. (Previously Presented) The digital signal recorder according to claim 14, wherein said recording circuit has a function for holding said encryption flag information in recording information signal area of said blocks and recording same on said recording medium.

16. (Previously Presented) The digital signal recorder according to claim 14, wherein said recording circuit has a function for holding said encryption flag information in auxiliary information signal area of said blocks and recording same on said recording medium.

17. (Previously Presented) The digital signal recorder according to claim 14, wherein said recording circuit has a function for adding said encryption flag information to packets in said digital signal.

18. (Previously Presented) The digital signal recorder according to claim 14, wherein said encryption circuit has a function for switching to determine whether or not to encrypt said digital signal, at points of separation between units of n tracks wherewith said second error correction code was added.

19. - 46. (Canceled)